

Granosil KR

Silicone based scratch render

Field of Application

Granosil KR is used as a decorative topcoat render on Granol'therm EWI systems. It can also be used as a finishing render on all mineral substrates, interior and exterior.

Composition

Water based top coat render. Consists of silicone resins and calibrated grains.

Colours

White is the standard colour.

Granosil KR is available in the colours of our colour chart. Special colours can be made on request. It is not possible to use colour tones with brightness-index below 20%.

Colour tone differences between the colour chart and the applied render cannot be avoided because of the nature of the raw material choices and weather influences on the drying process. In the event of subsequent deliveries the remaining part of the material must be mixed with the new material in order to avoid colour differences.

Characteristics

High water vapour permeability, weather resistant, low tendency to contamination, resistant to atmospheric influences, weather resistant, non swelling, low stress, environmental friendly, low odour. Very high resistance to environment pollutants and micro-organisms. UV-stable.

Preparation substrate

Adheres to all load bearing mineral surfaces. Surfaces should be clean and dry and free from surface dust, mortar remains (snots), soiling, atmospheric pollutants, etc. Granosil'plus STF primer is applied to the substrate, in the color tone of the respective decorative render. If in doubt about the substrate consult our technical department.

Preparation mixture

The render is ready to apply, depending on substrate and weather conditions max. 2 % water can be added.

Application

For the application a stainless steel trowel or spray equipment can be used, structure evenly with a synthetic burnishing tool, a wooden mortar board or a PU board.

Granosil KR can also be processed with suitable spray equipment in grain sizes up to 3,0 mm. The sprayed surface must always be burnished.

To prevent accretion the workers must apply the connected surfaces „wet in wet“ onto each other on the supporting framework. On larger surfaces it is advisable to render through till there is an interruption (cleaning belts, joints, outlet pipes etc.).

The fresh renders must be protected against torrential rain and too fast drying. Especially with direct sun and wind influences suitable measures must be taken, such as e.g. covering the façade or the supporting framework. Do not process with substrate and / or environmental temperatures below + 5° C or above 30° C.

The drying process of water-based organic renders is a physical process of evaporation and is influenced by the absorption of the substrate, the ambient temperature, the relative humidity of the air and ventilation. Drying becomes very slow if the relative humidity drops below 70%. When relative humidity comes close to 100%, drying stops. Vice versa the evaporation and curing process is accelerated by heat or strong wind.

Tools and equipment must be cleaned with water immediately after use . Surrounding building parts, such as windows, window-sills etc. must be properly covered.

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Consumption

Grain size 0,5 mm approx. 2,0 kg/m²

Grain size 1,0 mm approx. 2,3 kg/m²

Grain size 1,2 mm approx. 2,5 kg/m²

Grain size 1,5 mm approx. 2,7 kg/m²

Grain size 2,0 mm approx. 3,4 kg/m²

Grain size 3,0 mm approx. 3,7 kg/m²

Grain size 4,0 mm approx. 5,3 kg/m²

Technical data

| | |
|-----------------------------------|-----------------------------------------------------------|
| Water absorption coefficient | $w \leq 0,1 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0,5})$ |
| Diffusion resistance | $s_d \approx 0,1 \text{ m}$ |
| Thermal conductivity: | 0,60 W/(mK) |
| Watervapour diffusion resistance: | $\mu = 60$ |
| Density | approx. 1,72 kg/dm ³ |

Packaging

In 25 kg containers, ready for processing.

Store in a cool and frost-free area. Protect against direct sunlight. Can be stored in a closed container for at least 1 year. Opened containers must be processed within a short period of time.

Remarks

With new buildings it is necessary that prior to the start of the rendering activities the material must be tried to such an extent that irregularities in the colour toning due to excessive moist from the inside to the outside are prevented. Do not mix binders and additives.

Disposal

Present only completely empty container for recycling. Dried waste material must be handled as hardened bonding material or as domestic refuse, liquid waste material can be disposed off as refuse from water mixable bonding materials.

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